

### ABSTRACT OF THE DISCLOSURE

An analog finite impulse response ("FIR") filter generates a continuous time output using a chain of tunable delay elements. The tunable delay elements generate a time delay in an input signal. A calibration circuit, consisting of a control loop, tunes the delay elements to provide precision in the time delay response of the delay elements. The control loop generates a delay adjustment, based on the period of reference signals, and the phase adjustment is used to tune the parameters of the delay elements. The tunable delay elements may comprise any combination of transmission lines, lumped elements and semi-lumped elements.